

novaform® SK

The industrial exhaust gasket for extremely tough mechanical conditions.



Material profile

High-quality aramid fibres and functional fillers are the basic materials used to manufacture novaform® SK, reinforced by a galvanised zigzag twill fabric (1.0314), homogeneously embedded in an NBR matrix.

Materials with excellent properties are produced from this raw material blend:

- extremely high tensile strength
- outstanding pressure resistance
- maximum temperature stability
- unique mechanical resistance and reliability
- stable long-term sealing properties, even under extreme conditions

Application areas

novaform® SK is the ideal choice for use in the exhaust section of diesel engines, for example in shipbuilding:

- for extreme thermal and mechanical conditions, particularly for hot exhaust fumes, e.g. for exhaust systems, exhaust turbochargers, compressors
- can be combined very effectively with inner eyelet to improve performance

Good for people and the environment

Frenzelit has obtained certification that the company complies with the requirements of both ISO/TS 16949 and ISO 14001. This means complete transparency in all areas and a high degree of security for our customers.

Do you have any questions about your application? The gasket information service will help you:

gaskets@frenzelit.de

GASKETS

TECHNICAL TEXTILES

EXPANSION JOINTS

INSULATION

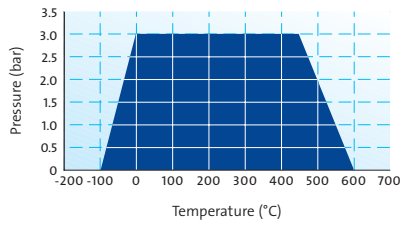
NEW MATERIALS



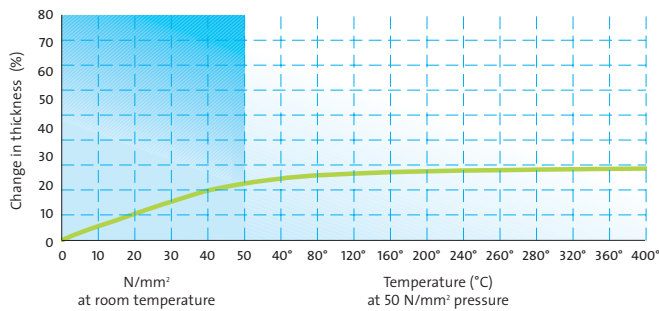
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Technical information about novaform® SK

Recommendation for hot exhaust fumes



Deformation under temperature 2.0 mm



The temperature and pressure recommendations in the graphs apply to gaskets with a thickness of 2.0 mm and smooth flanges. Higher stresses are possible when thinner gaskets are used!

Exact data for specific individual cases are available in the Frenzelit novaDISC programme or contact our application engineering specialists.

Warranty exclusion

In view of the variety of different installation and operation conditions and application and process engineering options, the information given in this prospectus can only provide approximate guidance. There is as a result no basis for warranty claims.

Material data

General Data

Binders	NBR
Colour	rolled-on graphite layer
Anti-stick coating	both sides black (dark grey)
Sheet size and thickness tolerance	acc. DIN 28 091-1

Physical properties

	Standard	Unity	Value*
Gasket thickness 2.0 mm			
Identification	28 091-2		FA-A 13-St
Density	DIN 28 090-2	[g/cm³]	1.90
Tensile strength	DIN 52 910		
longitudinal		[N/mm²]	20
transverse		[N/mm²]	19
Residual stress $\sigma_{dE/16}$	DIN 52 913		
175 °C		[N/mm²]	41
300 °C		[N/mm²]	40
Compressibility	ASTM F 36 J	[%]	20
Recovery	ASTM F 36 J	[%]	32
Fluid resistance	ASTM F 146		
ASTM IRM 903	5h/150 °C		
Weight change		[%]	25
Thickness increase		[%]	2
ASTM Fuel B	5h/23 °C		
Weight change		[%]	20
Thickness increase		[%]	2
Coolant/Water (50:50)	5h/100 °C		
Weight change		[%]	30
Thickness increase		[%]	3

* = Mode (typical value)

Product data

- Dimensions in mm: 1000 x 1000 as roll section
- Thicknesses in mm: 0.8/1.0/1.2/1.5/2.0/3.0
- further dimensions and thicknesses are available on request

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